

Tabular Key to Known and Hypothesized Female Gnathiid Isopods from the North East Pacific

Characters	Caecognathia crenulatifrons	Caecognathia Sp. A	Caecognathia SDI	Caecognathia sanctaecrucis	Caecognathia CSI	Gnathia MBCI	Gnathia steveni	Gnathia tridens	Gnathia coronadoensis	Gnathia clementensis	Gnathia trilobata	Gnathia productatridens
Overall Body Size	Average (3.5 – 4.75) mm	Small (2.6 mm)	Small (2.76 – 3.36) mm	Average (4.4 – 4.6) mm	Average (4.1 – 5.0) mm	Very Small (2.2mm)	Very Small (1.2 – 2.2) mm	Small (2.35 – 3.35) mm	Small (2.45 mm)	Large (4.6 – 8.5) mm	Average (3.15 -3.6) mm	Average (2.75 - 3.75) mm
Body Pigment	Brown mottling	Brown mottling	None	Tiny black dots	None	None	Brown mottling	None	None	None	None	None
Overall body setosity	Asetose	?	Setose	Setose	Asetose	?	?	Slight	?	?	?	Asetose
Eyes	Present	Present	Present	Present	Present	Present	Present	Present	Absent	Present	Present	Present
Eye Color	Dark Brown	Reddish Brown	Golden or Amber	Dark Brown	No Pigment	Reddish Brown	Dark Brown	Reddish Brown	No Eyes	No Pigment	Golden or Amber	Red and White Checkerboard
Eye Shape	Oblong and Flat	Round and Convex	Oblong and Convex	Round and Convex	Round and Convex	Round and Convex	Round and Convex	Round and Flat	No Eyes	Round and Convex	Oblong and Convex	Oblong and Flat
Frons shape	Long, Narrowing, Apex rounded	?	Long, Medially Cleft	Medium, Wide Trilobed	Short, Wide Trilobed	?	?	Medium, Narrowing, rounded apex	?	?	?	Medium, non-narrowing rounded apex
Epimeres (condition)	Laterally projected	Laterally projected	Laterally projected	Laterally projected	Laterally projected	Not projected	Not projected	Laterally projected	Laterally projected	Laterally projected	Laterally projected	Laterally projected
Epimeres single or double	Single Dorsal only	Single Dorsal only	Single Dorsal only	Double	Double	Single Dorsal only	Single Dorsal only	Single Dorsal only	Single Dorsal only	Double	Double	Single Dorsal only
Dorsal Epimeres prominent posteriorly	No, subequal Visible Ends tapering acutely	No, subequal Visible Ends tapering acutely	No, subequal Visible Ends tapering acutely	Yes, Visible Ends tapering acutely	Yes, Visible Ends tapering acutely	No, subequal Not easily seen	No, subequal Not easily seen	No, Visible subequal Ends tapering acutely	No, subequal Visible Ends tapering acutely	Yes, Visible Ends tapering acutely	No, subequal Not easily seen	No, subequal Visible Ends tapering acutely
Ventral Epimeres larger	N/A	N/A	N/A	Yes	Yes	N/A	N/A	N/A	N/A	Yes	Yes	N/A
Ventral Epimeres prominent posteriorly	N/A	N/A	N/A	Yes Spine-like	Yes Spine-like	N/A	N/A	N/A	N/A	Yes Spine-like	Yes Spine-like	N/A
Pleopods (setosity)	Very lightly setose	?	Very lightly setose	Very lightly setose	Very lightly setose	?	?	Very lightly setose	?	?	?	Asetose
Pleopods (shape)	Paddle-like	Paddle-like	Paddle-like	Paddle-like	Paddle-like	Paddle-like	Paddle-like	Paddle-like	Paddle-like	Long-Narrow	Long-Narrow	Long-Narrow
Telson extends beyond the endopod	No	No	No	No	No	No	No	No	No	No	Yes	No
Telson Size	Long and wide	Medium and narrow	Long and wide	Medium and narrow	Long and narrow	Short and wide	Short and wide	Short and wide	Long and wide	Long and narrow	Long and narrow	Long and narrow
Telson Shape	Triangular ▼	Triangular ▼	Arrowhead Shaped	T-Shaped	T-Shaped	Triangular ▼	Triangular ▼	Triangular ▼	Triangular ▼	T-Shaped	Arrowhead Shaped	Arrowhead Shaped

Taxa in black bold have been directly observed. The remaining taxa are what we would expect females to look like based on males. Characters with a ? are potentially variable.